

In the Claims

Claims 1-28 (Cancelled)

Claim 29 (Currently amended): A method for inducing proliferation of human ~~or mouse~~ stem cells that express SIP-110, comprising introducing ~~an inhibitor of murine s-SHIP activity or human s-SHIP (SIP-110) activity into the stem cells~~ anti-SIP-110 shRNA into the stem cells, wherein the shRNA reduces SIP-110 expression in the stem cells.

Claims 30-31 (Canceled)

Claim 32 (Previously presented): The method of claim 31, wherein the shRNA is introduced into the stem cells by electroporation.

Claims 33-34 (Canceled)

Claim 35 (Currently amended): The method of claim 32, ~~wherein the stem cells are human stem cells, wherein the shRNA reduces human s-SHIP (SIP-110) expression in the stem cells, and~~ wherein the ~~human s-SHIP~~ SIP-110 comprises the nucleotide sequence of SEQ ID NO:3.

Claims 36-38 (Canceled)

Claim 39 (Previously presented): The method of claim 29, wherein the stem cells are embryonic stem cells.

Claim 40 (Previously presented): The method of claim 29, wherein the stem cells are hematopoietic stem cells.

Claim 41 (Previously presented): The method of claim 29, further comprising inducing the stem cells to differentiate.

Claim 42 (New): The method of claim 29, wherein said introducing is carried out *in vitro*.

Claim 43 (New): A method for inducing proliferation of mouse stem cells that express s-SHIP, comprising introducing anti-s-SHIP shRNA into the stem cells, wherein the shRNA reduces s-SHIP expression in the stem cells.

Claim 44 (New): The method of claim 43, wherein the shRNA is introduced into the stem cells by electroporation.

Claim 45 (New): The method of claim 43, wherein the s-SHIP comprises the nucleotide sequence of SEQ ID NO:1 or SEQ ID NO:2.

Claim 46 (New): The method of claim 43, wherein the stem cells are embryonic stem cells.

Claim 47 (New): The method of claim 43, wherein the stem cells are hematopoietic stem cells.

Claim 48 (New): The method of claim 43, further comprising inducing the stem cells to differentiate.

Claim 49 (New): The method of claim 43, wherein said introducing is carried out *in vitro*.

Claim 50 (New): A method for inducing proliferation of human hematopoietic stem cells or human embryonic stem cells, comprising introducing anti-SHIP-110 shRNA into the hematopoietic or embryonic stem cells *in vitro*, wherein the shRNA reduces SIP-110 expression in the stem cells.

Claim 51 (New): A method for inducing proliferation of mouse hematopoietic stem cells or mouse embryonic stem cells that express s-SHIP, comprising introducing anti-s-SHIP shRNA into the hematopoietic stem cells or embryonic cells *in vitro*, wherein the shRNA reduces s-SHIP expression in the stem cells.